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WASHINGTON POST CPYRGHT SEP 1955 AND TIMESanitized - Approved For Release: CIA-RDP70-00058R000100060027-5. Education May Lift USSR's Bonds

By Allen W. Dulles

The following is condensed from a talk by Dulles, director of the Central Intelligence Agency, at Columbia University.

MUCH OF THE WORK of Central Intelligence Agency is focused on develop-ments in the Soviet Union and its European and Fat Sast-ern satellites and allies Naturally, we are particu-larly concerned with informa-

tion on the military and industrial strength of the Communist world. However, we also follow the cultural develop-ment behind the Iron Curtain. and recently we have been giving close study to the Soviet educational system.

The Soviets have two edu cational goals. First, to condition the Soviet people to be proper believers in Marxist Leninism and to do the bid ding of their rulers. Second to turn out the necessary trained technicians to build the military and industria might of the USSR.

In the field of science, the Soviets have made rapid prog ress and their accomplish ments here should not be minimized, least of all by those of us who are directly concerned with our nationa security.

Twenty-five years ago, Soviet scientific education was riddled with naive experments, persecution of scholers and unrealistic and scholers. ars and unrealistic programs Today, that is no longer so

The Soviet education systemin the sciences and engineer ing-now bears close compa-ison with ours, both in quality of training and in numbers of persons trained to a high level. At the university graduate level, we find that the entrance examinations for so entific work at the top insti tutions are about as tough as those required by our own institutions.

True, their biology has been warped by Soviet ideology, most conspicuously by heresies in the field of genetics such as the doctrine that a quired characteristics are i herited. Also, their agricul-tural sciences have been back ward, plagued like all of Soviet agriculture by the folli of the collective system. What farmer will go out into the middle of a cold Russian night to see what ails a state owned cow?

In the physical sciences there is little evidence of such political interference. Sovie

mathematics and meteorology of the West, and even ahead in some respects.

heir research program. We who are in intelligence work have learned by now that it s rarely safe to assume that he Soviets do not have the pasic skill, both theoretical and technical, to do in these fields what we can do.

While total Soviet scienific manpower at the univer-sity graduate level is about he same as ours—somewhere over a million each — about half of the Soviet total were trained by the inferior prewar standards. In number of research workers—a good index of average quality—we estimate that the United States has a 2-1 margin over the U.S.S.R. in the physical sciences.

WE MUST remember, too, that the United States has a substantial number of competent engineers who have not taken university degrees but have learned their trade through experience. The U.S.S.R. has no real counterpart for this group, just as it has no substantial counterpart for the vast American reservoir of persons with high-grade mechanical skills.

But lest we become complacent, it is well to note that the Soviets are now turning out more university graduates in the sciences and engineering than we are—about 120,000 to 70,000 in 1955. In round numbers, the Soviets will graduate about 1,200,000 in the sciences in the 10 years from 1950 to 1960, while the comparable United States figure will be about 900,000.

These comparisons in the scientific field most emphatically do not mean that Soviet higher education as a whole is as yet comparable to that of the United States. More than 50 per cent of Soviet graduates are in the sciences, against less than 20 per cent in the United States. Science in the U.S.S.R. has had an overriding priority.

Another important feature of Soviet education is the growth of secondary education at the senior high school level. By 1960, the Soviets will have 4 to 5 times as many secondary graduates per year as they had in 1950. These will be divided fairly evenly between men and women. Whereas, a decade ago, only about 20 per cent of Soviet seventh grade students went any farther, by 1960 probably more than 70 per cent will

do so.

Their secondary school standards are high and largely explain their ability to for example appear to be train competent scientists and clearly on Salattiand the proved worth Release maintain these standards in the face of a very rapid expan-

ion is a question

SO MUCH for the advance in material terms. Let us turn now to the "thought control" aspect.

The Soviets give top priority to preserving the Marxist-Leninist purity of their students. Beginning with kindergarten rhymes on the glories of Lenin, they pass to the history of the Communist Party and comparison of the "benevolent" Soviet constitution with the "corrupt" constitutions of the West that do not confer liberty.

Soviet economics teaches why the workers in capitalist countries can never own cars but must always live in poverty. In the lower grades, civic virtue is taught by citing the example of a Soviet boy, Pavlik Morozov, who betrayed his family to the secret police and now has statues raised in his honor.

Even though it is hard to distort the physical sciences, they are used to prove the virtues of atheism. In ancient history, it is the Athenians who are corrupt and the Spartans virtuous. In literature courses, selected works of Dickens are read as presenting an authentic picture of the present-day life of the British workingman, while Howard Fast, "Uncle Tom's Cabin" and "The Grapes of Wrath" portray the contemporary United States.

To repay the government for his or her so-called "free" education, Soviet law requires that each student upon graduation must work for three consecutive years as the state directs.

Even at the end of the 3. year compulsory assignment, the individual still is under the control of the Communist Party, the Young Communist League, the local union or the factory directors. To object to further assignments is to court an efficiency report so bad that a job will be hard to find. And if a man were to refuse an assignment, he would lose his occupation and be forced to work at unskilled and menial tasks wherever he could find them.

Such, then, is the systemstressing high technical educational standards on the one hand while insisting on Communist philosophy and disci-pline on the other. Its ultimate human result, the Soviet graduate, must be-in the phrase given me by one of the best educated of our recent defectors-"a man divided."

In time, with the growth of education-with more knowledge, more training of the mind, given to more peoplethis Soviet "man divided" must inevitably come to have more

G4AmRD PAGE 00058R000700060027th mselve Communist system as a whole. have caused to be created can foresee the possibility of education.

great changes in the Soviet system. Here the educational advances will play a major part.

There is already evidence of this. As I have said, the physical sciences are being freed of party-line restraints. Within the educational structure itself, the pressure to turn out good scientists and good engineers has caused a de-emphasis of the time spent on idenlogical subjects.

The student engineer, while he still has to pass his courses in Marxist-Leninism, can increasingly afford to do a purely formal job on the ideological front if he is a good engineer.

In the last year there have been interesting signs of this freedom spreading to other areas, notably to the hiological and agricultural sciences. Lysenko is no longer gospel-l suspect for the very simple reason that his theories proved fallacious when used as the basis for new agricultural programs.

The development of corn and of better wheat strains proved remarkably resistant to the teachings of Marx and Lenin-and in the end, nature won the day. After all, Karl Marx was not much of a farmer. Now Moscow is looking toward Iowa.

SO FAR, this is only a small straw in the wind. But it is a significant one. If freedom to seek truth can spread from the physical to the biological sciences, we can begin to look for signs of independence even in the hallowed sanctum of economics.

Certainly, every year tha the "decadent" capitalist sys tem continues to avoid depres sion and to turn out more and more goods, even the mos hardened Soviet economis must wonder about the accu racy of the Communist version of truth in this field.

In cultural pursuits, the evi dence is not all one-sided. Lit erature and even music ar still subject to denunciation and criticism for not expres ing the proper ideals. But clearly, here too there has been some relaxation in th past two years. Recently, wri ers once denounced as bour geois and cosmopolitan are be ing permitted to work again

Ultimately, however much the Soviets condition a man mind, however narrowly they permit it to develop and however much they seek to direct him after he is trained, the cannot in the end prevent his from exercising that critic

If we take a longer look we him when they gave him